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native sequence
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 Lopez-Torres et al., 2002 "Human betace

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Shigella exotoxin Baciillus anthracis Escherichia coli Bordetella pertussis Pseudomonas aeruginosa -

ricin - Lamb et al, Eur.J. Biochem 148, 265-270 (1985) 10 abrin - Wood et al, Eur.J. Biochem 198, 723-732 (1991) saporin Benatti et al, Eur.J. Biochem 183, 465-470 (1989) pokeweed - Kataoka et al, Plant Mol. Biol. 20, 879-886 (1992) gelonin - (Nolan et al, Gene, 134, 223-227 (1993)) tric hosanthin - Shaw et al 20 l, Gene, 97, 267-272 (1991)

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$\frac{1}{n} \sum_{i=1}^n v_i u_i = \overline{vu}$

$\frac{1}{n} \sum_{i=1}^n u_i t_i = \overline{ut}$

$\frac{1}{n} \sum_{i=1}^n t_i s_i = \overline{ts}$

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$\frac{1}{n} \sum_{i=1}^n r_i q_i = \overline{rq}$

$\frac{1}{n} \sum_{i=1}^n q_i p_i = \overline{qp}$

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$\frac{1}{n} \sum_{i=1}^n k_i j_i = \overline{kj}$

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$\frac{1}{n} \sum_{i=1}^n n_i^3 = \overline{n^3}$

$\frac{1}{n} \sum_{i=1}^n m_i^3 = \overline{m^3}$

$\frac{1}{n} \sum_{i=1}^n l_i^3 = \overline{l^3}$

$\frac{1}{n} \sum_{i=1}^n k_i^3 = \overline{k^3}$

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$\frac{1}{n} \sum_{i=1}^n b_i^3 = \overline{b^3}$

$\frac{1}{n} \sum_{i=1}^n a_i^3 = \overline{a^3}$

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$\frac{1}{n} \sum_{i=1}^n y_i z_i w_i = \overline{yzw}$

$\frac{1}{n} \sum_{i=1}^n z_i w_i v_i = \overline{zvw}$

$\frac{1}{n} \sum_{i=1}^n w_i v_i u_i = \overline{wvu}$

$\frac{1}{n} \sum_{i=1}^n v_i u_i t_i = \overline{vut}$

$\frac{1}{n} \sum_{i=1}^n u_i t_i s_i = \overline{uts}$

$\frac{1}{n} \sum_{i=1}^n t_i s_i r_i = \overline{tsr}$

$\frac{1}{n} \sum_{i=1}^n s_i r_i q_i = \overline{srq}$

$\frac{1}{n} \sum_{i=1}^n r_i q_i p_i = \overline{rpq}$

$\frac{1}{n} \sum_{i=1}^n q_i p_i o_i = \overline{qpo}$

$\frac{1}{n} \sum_{i=1}^n p_i o_i n_i = \overline{pon}$

$\frac{1}{n} \sum_{i=1}^n o_i n_i m_i = \overline{onm}$

$\frac{1}{n} \sum_{i=1}^n n_i m_i l_i = \overline{nml}$

$\frac{1}{n} \sum_{i=1}^n m_i l_i k_i = \overline{mlk}$

$\frac{1}{n} \sum_{i=1}^n l_i k_i j_i = \overline{lkj}$

$\frac{1}{n} \sum_{i=1}^n k_i j_i i_i = \overline{kji}$

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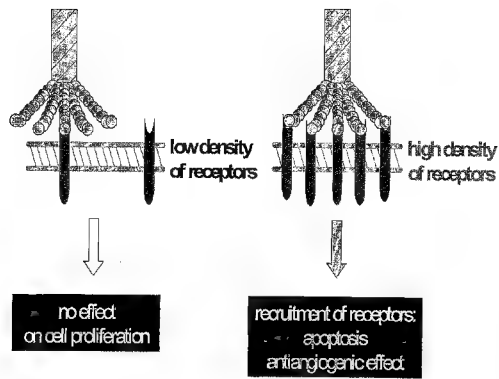
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Figure 1:



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Figure 2:

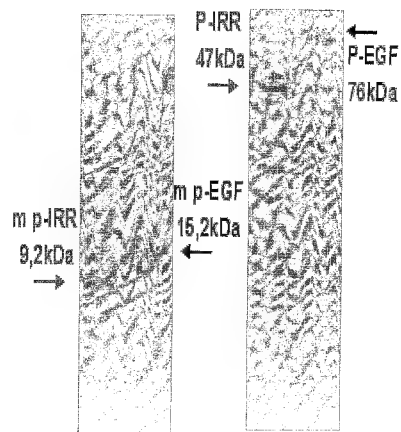


Amino acid sequence of peptabody Irrelevant :
 MYSFEDLHHHHHGDLPQMLRELQETNAALQDVRDYLRLVREITFLKN
 TVMECDACGMQQTSPPTPTPSPSTPTPSPRNSDSECLSHDGHCLH

Amino acid sequence of peptabody EGF :
 MYSFEDLHHHHHGDLPQMLRELQETNAALQDVRDYLRLVREITFLKN
 TVMECDACGMQQTSPPTPTPSPSTPTPSPRNSDSECLSHDGHCLH
 DGVCMIYIEALDKYACNCVVGIGERCQYRDLKWWELR*

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Figure 3:



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Figure 4:

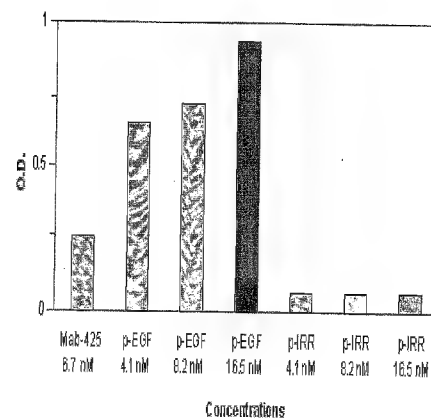


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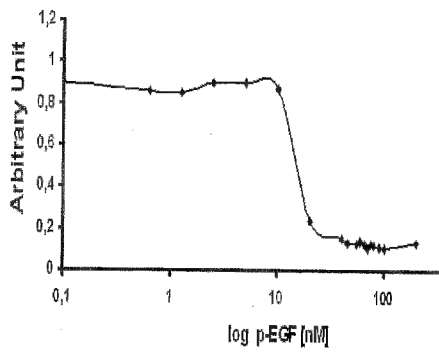


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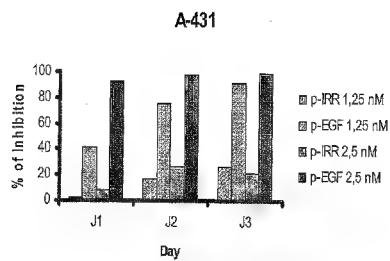


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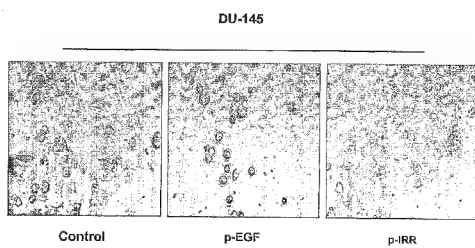


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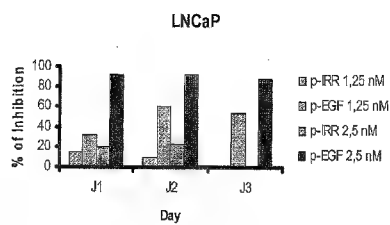


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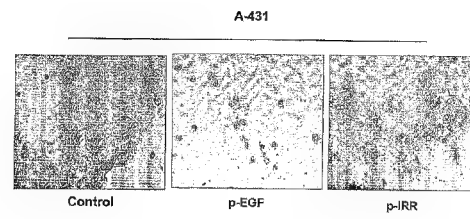


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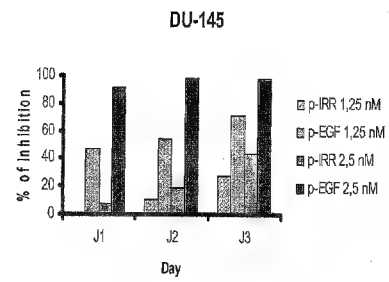


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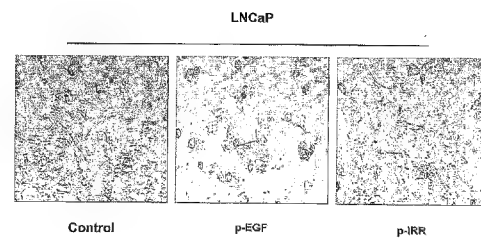


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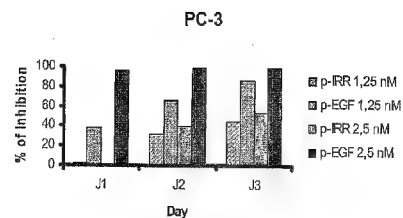




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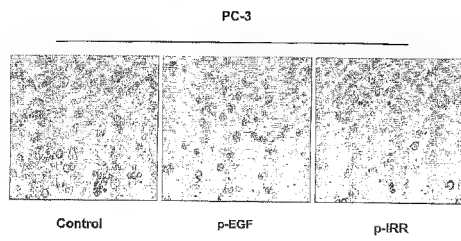


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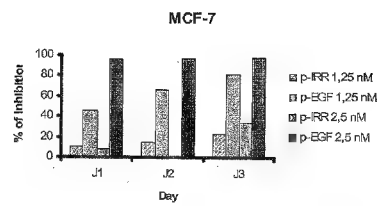


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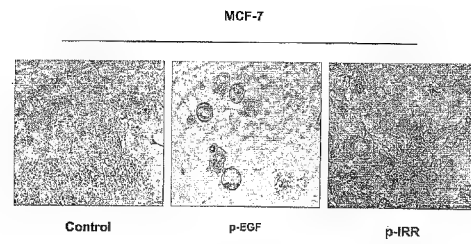


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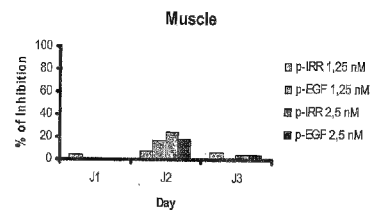


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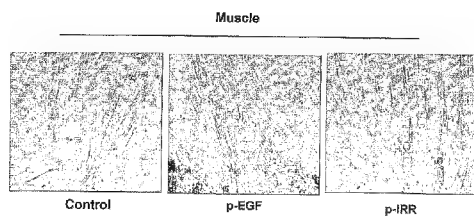


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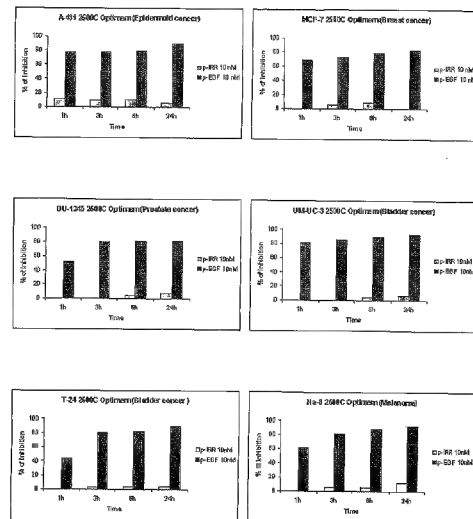


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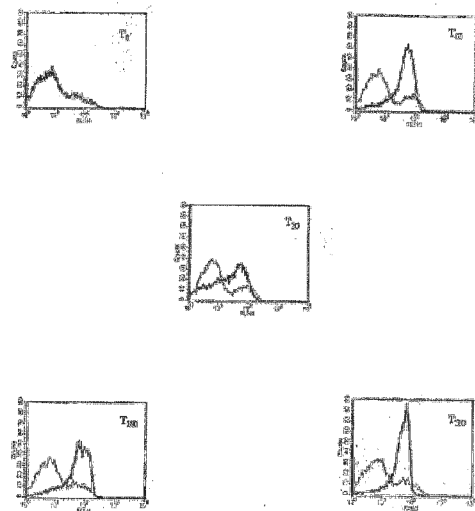


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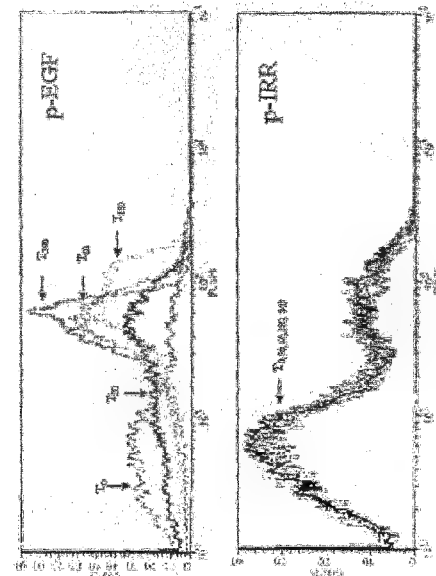


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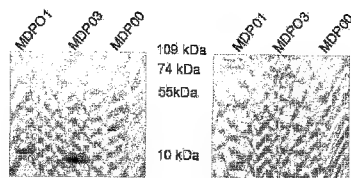


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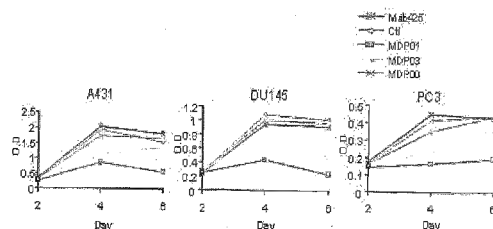


Figure 22:

DNA Sequence Irrelevant Peptabody: MDP00

ATGTATAGCTTTGAAGATCTGGCTAGCCATCATCACCATCATGGAGACCTGGGCC
CGCAGATGCTGCGTGAACCTGCAGGAAACCAACGCTGCTCTGCAGGACGTTGTTGACTA
CCTGCGTCAGCTGGTTCGTGAAATCACTTCTGAAAAACACCGTTATGGAATGCGAC
GCTTGCCTATGCAGCAGACTAGTCCGCTACTCCGCCAATCCGCTCCGCTCTACTCC
GCCAATCCGCTCCGAGATCTTAA

Protein Sequence Irrelevant Peptabody: MDP00

MYSFEDLASHHHHHGGDLGPQMLRELQETNAALQDVRDYLRLVREITFLKNTVMEDCA
CGMQQTSPPTPTPTSPPTPTPTSPRS*



Figure 23:

DNA Sequence Peptabody EGF: MDP01

ATGTATAGCTTTGAAGATCTGGCTAGCCATCATCACCATCATGGAGACCTGGGCC
CGCAGATGCTGCGTGAACCTGCAGGAAACCAACGCTGCTCTGCAGGACGTTGTTGACTA
CCTGCGTCAGCTGGTTCGTGAAATCACTTCTGAAAAACACCGTTATGGAATGCGAC
GCTTGCCTATGCAGCAGACTAGTCCGCTACTCCGCCAATCCGCTCCGCTCTACTCC
GCCAATCCGCTCCGAGATCAATCTGACTCTGAATGCCGATTGCTCAAGACGGG
TTACTGCTTGCAGGACGGTCTTGCATGTACATCGAAGCTCTGGACAAATACGGT
TGCAACTCGCTGTGTGCTTACATCGGTGAACGTTGCCAATACCGAGATCTGAAAT
GGTGGGAATCGCTTAA

Protein Sequence Peptabody EGF: MDP01

MYSFEDLASHHHHHGGDLGPQMLRELQETNAALQDVRDYLRLVREITFLKNTVMEDCA
CGMQQTSPPTPTPTPTPTPTPTPTNSDSECLSHDGYCLHDGYCMYIHALDKYACNC
VYGYIGERCQYRDLKWWELR*



Figure 24:

DNA Sequence Peptabody GBP: MDP03

ATGTATAGCTTTGAAGATCTGGCTAGCCATCATCATCACCATCATGGAGACCTGGGC
 OGCAATGCTGCTGAAGTGCAGGAAACCAACGCTGCTGTCAGGACGTTCTGACTA
 CTTGGCTCAGCTGGTTCTGTAATACCTTCTGAAAAACACCGTTATGGAATGCGAC
 GCTTGGGTATGCAGCAGACTAGTCCGCTACTCCGCCAATCCGCTCCGCTACTCC
 GCCAATCCGCTCCGAGATCTGAAAACCTTCCGCCGCGCTGCGTGGCGGGCTATA
 TGGCTACCCCGCATGGCCGCTTGCAACCGACCTTTATCAG744

Protein Sequence Peptabody GBP: MDP03

MYSFEDLASHHHHHHGDLGPQMLRELQETNAALQDVRDYLRLVREITFLKNTVMECDA
 CGMQQTSPPTPTPTPTPTSPRSENTSGGCVAGYMRTPDGRCKPTFYQ*



Figure 25:

Production of decabodies fused to different Enhancers



Enh0 = -
 Enh1 = YSF
 Enh2 = YSFEDL
 Enh3 = YSFEDLYRR

7D = peptide STNHNH

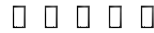
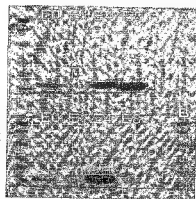


Figure 26:

Production of peptabodies fused to different Enhancers



Enh0 = -
 Enh1 = YSF
 Enh2 = YSFEDL
 Enh3 = YSFEDLYRR
 Enh4 = YSFEDLYRR
 Enh5 = YSFEDLYRR
 Enh6 = YSFEDLYRR
 Enh7 = YSFEDLYRR

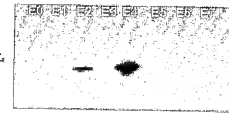
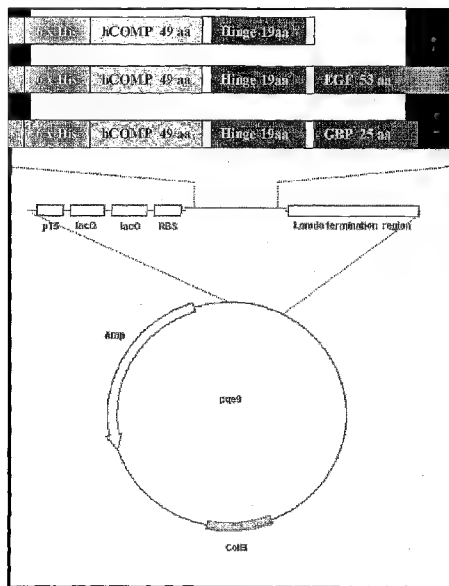


Figure 27:



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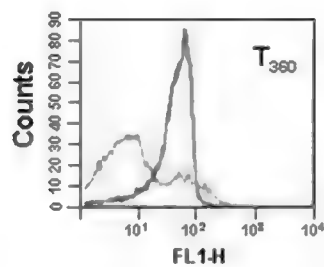
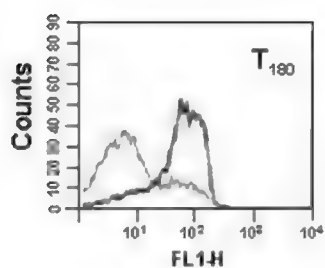
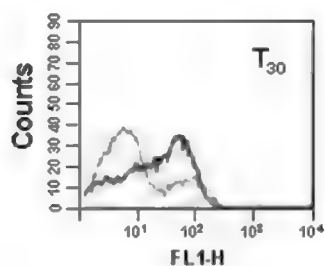
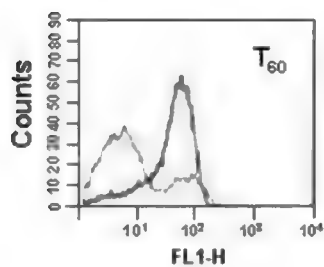
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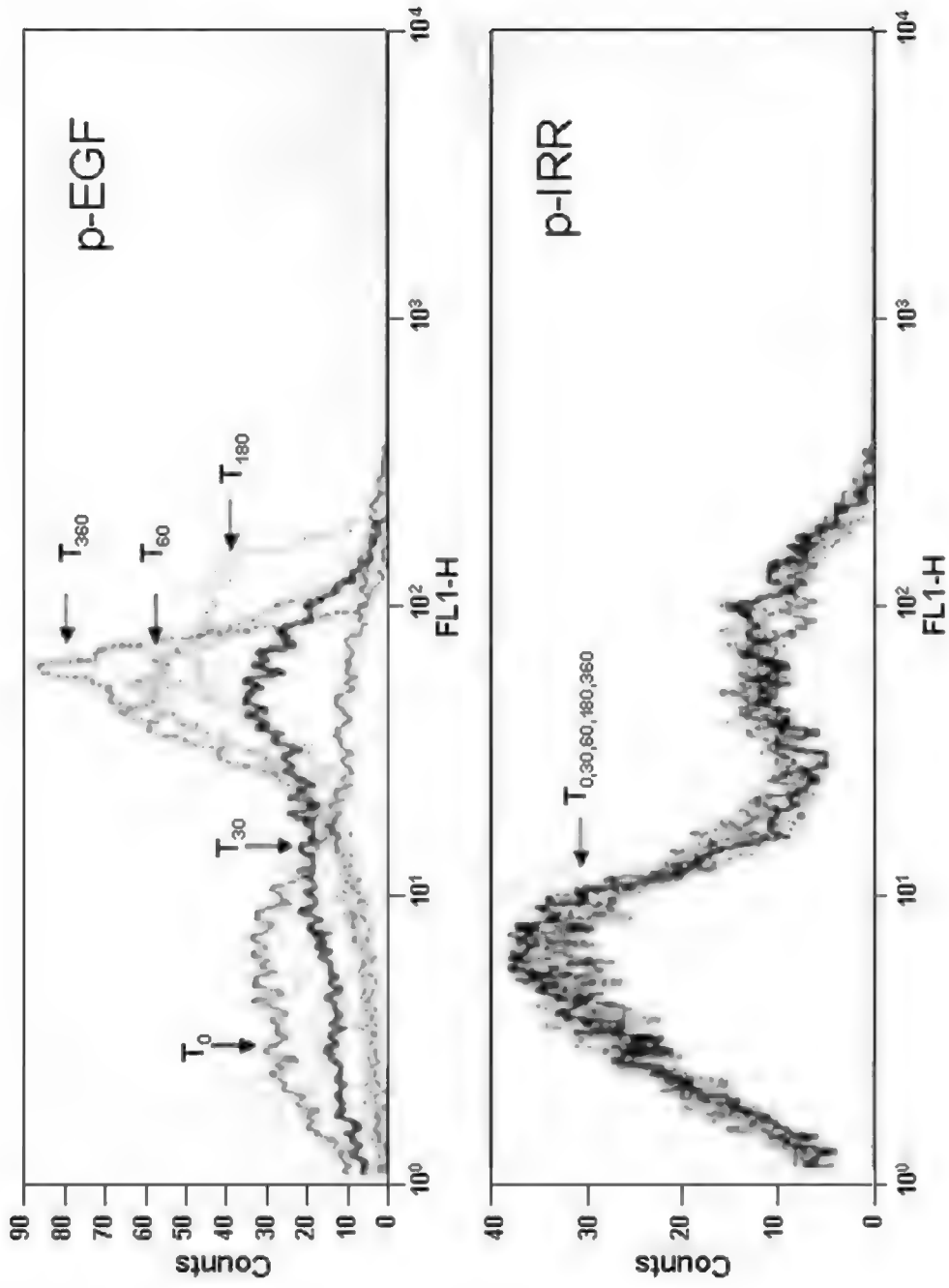
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INTERNATIONAL SEARCH REPORT

		International Application No. PCT/IB2004/001049
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K19/00 C12N15/62		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K C12N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, CHEM ABS Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	the whole document ----- -/-	1-44
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 17 September 2004		Date of mailing of the international search report 06.10.04
Name and mailing address of the ISA European Patent Office, P.B. 5816 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl Fax: (+31-70) 340-3016		Authorized officer Valcarcel, R

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